



Final Product/Process Change Notification

Document #:FPCN24561XG

Issue Date:03 Nov 2023

Title of Change:	Qualification of UniFET's, and other discrete products at onsemi Roznov, Czech Republic.	
Proposed First Ship date:	05 Feb 2024 or earlier if approved by customer	
Contact Information:	Contact your local onsemi Sales Office or Gapyeol.Kim@onsemi.com	
PCN Samples Contact:	Contact your local onsemi Sales Office. Sample requests are to be submitted no later than 30 days from the date of first notification, Initial PCN or Final PCN, for this change. Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements.	
Additional Reliability Data:	Contact your local onsemi Sales Office or songyong.sim@onsemi.com	
Type of Notification:	This is a Final Product/Process Change Notification (FPCN) sent to customers. FPCNs are issued 90 days prior to implementation of the change. onsemi will consider this change accepted, unless an inquiry is made in writing within 30 days of delivery of this notice. To do so, contact PCN.Support@onsemi.com	
Marking of Parts/ Traceability of Change:	Date Code	
Change Category:	Wafer Fab Change	
Change Sub-Category(s):	Manufacturing Site Transfer	
Sites Affected:		
onsemi Sites	External Foundry/Subcon Sites	
onsemi Roznov, Czech Republic	None	
Description and Purpose:		
This notification is to inform the customers that onsemi qualified their Unifet's, and other discrete products at onsemi Roznov, Czech Republic. Some of the parts may also undergo a wafer probe alternate location, but there is no impact to the 100% final electrical test.		
	From	To
Wafer Fab	onsemi Bucheon, Korea	onsemi Roznov, Czech Republic
There are no product material changes and no product marking changes as a result of this change.		

Reliability Data Summary:

QV DEVICE NAME: FDL100N50F (6-UNIFET)

RMS: U90624

PACKAGE: TO220

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Tj= 150°C, 80% max rated V	1008 hrs	0/240
HTGB	JESD22-A108	Tj= 150°C, 100% max rated Vgss	1008 hrs	0/240
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/240
TC	JESD22-A104	Ta= -55°C to +150°C	1000 cyc	0/120
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/118
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/118

QV DEVICE NAME: FDL100N50F (8-UNIFET)

RMS: U90623

PACKAGE: TO220

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Tj= 150°C, 80% max rated V	1008 hrs	0/160
HTGB	JESD22-A108	Tj= 150°C, 100% max rated Vgss	1008 hrs	0/160
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/160
TC	JESD22-A104	Ta= -55°C to +150°C	1000 cyc	0/80
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/80
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/80

QV DEVICE NAME: FDPF17N60NT (8-UNIFET)

RMS: U90717

PACKAGE: TO220F

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Tj= 150°C, 80% max rated V	1008 hrs	0/80
HTGB	JESD22-A108	Tj= 150°C, 100% max rated Vgss	1008 hrs	0/80
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/80
TC	JESD22-A104	Ta= -55°C to +150°C	1000 cyc	0/40
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/38
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/40



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QV DEVICE NAME: IRFW630BTM-FP001 (6-BFET)

RMS: U90865

PACKAGE: D2PAK

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Tj= 150°C, 80% max rated V	1008 hrs	0/240
HTGB	JESD22-A108	Tj= 150°C, 100% max rated Vgss	1008 hrs	0/240
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/240
PC	J-STD-020 JESD-A113	MSL 1 @ 245°C, Pre TC, uHAST, HAST for surface mount pkgs only	-	-
TC	JESD22-A104	Ta= -55°C to +150°C	1000 cyc	0/240
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/240
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/240

Electrical Characteristics Summary:

Electrical characteristics are not impacted.

List of Affected Parts:

Note: Only the standard (off the shelf) part numbers are listed in the parts list. Any custom parts affected by this PCN are shown in the customer specific PCN addendum in the PCN email notification, or on the [PCN Customized Portal](#).

Part Number	Qualification Vehicle
FDL100N50F	FDL100N50F
FQA8N100C	FDL100N50F
FQAF11N90C	FDL100N50F
FQB8N90CTM	FDL100N50F
FQD2N60CTM	FDL100N50F
FQD6N40CTM	FDL100N50F
FQH8N100C	FDL100N50F
FQP11N40C	FDL100N50F
FQP6N80C	FDL100N50F
FQP8N80C	FDL100N50F
FQP9N90C	FDL100N50F
FQPF13N50CF	FDL100N50F
FQPF3N80C	FDL100N50F
FQPF4N90C	FDL100N50F
FQPF8N80C	FDL100N50F
FQPF9N90CT	FDL100N50F
PCFQ3N60CW	FDL100N50F



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FDH44N50	FDL100N50F
FDA16N50-F109	FDL100N50F, FDPF17N60NT
FDA24N40F	FDL100N50F, FDPF17N60NT
FDA24N50F	FDL100N50F, FDPF17N60NT
FDA38N30	FDL100N50F, FDPF17N60NT
FDA59N25	FDL100N50F, FDPF17N60NT
FDB20N50F	FDL100N50F, FDPF17N60NT
FDB28N30TM	FDL100N50F, FDPF17N60NT
FDB44N25TM	FDL100N50F, FDPF17N60NT
FDD3N40TM	FDL100N50F, FDPF17N60NT
FDD7N20TM	FDL100N50F, FDPF17N60NT
FDP18N50	FDL100N50F, FDPF17N60NT
FDP20N50F	FDL100N50F, FDPF17N60NT
FDP33N25	FDL100N50F, FDPF17N60NT
FDP51N25	FDL100N50F, FDPF17N60NT
FDP52N20	FDL100N50F, FDPF17N60NT
FDP61N20	FDL100N50F, FDPF17N60NT
FDPF15N65	FDL100N50F, FDPF17N60NT
FDPF18N50	FDL100N50F, FDPF17N60NT
FDPF18N50T	FDL100N50F, FDPF17N60NT
FDPF39N20	FDL100N50F, FDPF17N60NT
FDPF44N25T	FDL100N50F, FDPF17N60NT
FDB38N30U	FDL100N50F, FDPF17N60NT
FDD18N20LZ	FDL100N50F, FDPF17N60NT
FDD7N25LZTM	FDL100N50F, FDPF17N60NT
FDPF51N25	FDL100N50F, FDPF17N60NT
FDD5N50NZTM	FDL100N50F, FDPF17N60NT
FDD5N60NZTM	FDL100N50F, FDPF17N60NT
FDP22N50N	FDL100N50F, FDPF17N60NT
FDPF12N60NZ	FDL100N50F, FDPF17N60NT
IRFM120ATF	IRFW630BTM-FP001
FDPF17N60NT	FDPF17N60NT
FDH45N50F-F133	FDL100N50F, FDPF17N60NT

Appendix A: Changed Products

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DIKG: DIGI-KEY (page 1 of 2)

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
FDP52N20		FDL100N50F, FDPF17N60NT	NA	
FDPF15N65		FDL100N50F, FDPF17N60NT	NA	
FDPF18N50		FDL100N50F, FDPF17N60NT	NA	
FDPF18N50T		FDL100N50F, FDPF17N60NT	NA	
FDPF39N20		FDL100N50F, FDPF17N60NT	NA	
FDPF44N25T		FDL100N50F, FDPF17N60NT	NA	
FDB38N30U		FDL100N50F, FDPF17N60NT	NA	
FDD18N20LZ		FDL100N50F, FDPF17N60NT	NA	
FDD7N25LZTM		FDL100N50F, FDPF17N60NT	NA	
FDPF51N25		FDL100N50F, FDPF17N60NT	NA	
FDD5N50NZTM		FDL100N50F, FDPF17N60NT	NA	
FDD5N60NZTM		FDL100N50F, FDPF17N60NT	NA	
FDP22N50N		FDL100N50F, FDPF17N60NT	NA	
FDPF12N60NZ		FDL100N50F, FDPF17N60NT	NA	
IRFM120ATF		IRFW630BTM-FP001	NA	
FDPF17N60NT		FDPF17N60NT	NA	
FDH45N50F-F133		FDL100N50F, FDPF17N60NT	NA	
FDL100N50F		FDL100N50F	NA	
FQA8N100C		FDL100N50F	NA	
FQAF11N90C		FDL100N50F	NA	
FQD2N60CTM		FDL100N50F	NA	
FQD6N40CTM		FDL100N50F	NA	
FQH8N100C		FDL100N50F	NA	
FQP11N40C		FDL100N50F	NA	
FQP6N80C		FDL100N50F	NA	
FQP8N80C		FDL100N50F	NA	
FQP9N90C		FDL100N50F	NA	
FQPF13N50CF		FDL100N50F	NA	
FQPF3N80C		FDL100N50F	NA	
FQPF4N90C		FDL100N50F	NA	
FQPF8N80C		FDL100N50F	NA	
FQPF9N90CT		FDL100N50F	NA	
FDH44N50		FDL100N50F	NA	
FDA16N50-F109		FDL100N50F, FDPF17N60NT	NA	
FDA24N40F		FDL100N50F, FDPF17N60NT	NA	
FDA24N50F		FDL100N50F, FDPF17N60NT	NA	
FDA38N30		FDL100N50F, FDPF17N60NT	NA	
FDA59N25		FDL100N50F, FDPF17N60NT	NA	
FDB20N50F		FDL100N50F, FDPF17N60NT	NA	

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DIKG: DIGI-KEY (page 2 of 2)

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
FDB28N30TM		FDL100N50F, FDPF17N60NT	NA	
FDB44N25TM		FDL100N50F, FDPF17N60NT	NA	
FDD3N40TM		FDL100N50F, FDPF17N60NT	NA	
FDD7N20TM		FDL100N50F, FDPF17N60NT	NA	
FDP18N50		FDL100N50F, FDPF17N60NT	NA	
FDP20N50F		FDL100N50F, FDPF17N60NT	NA	
FDP33N25		FDL100N50F, FDPF17N60NT	NA	
FDP51N25		FDL100N50F, FDPF17N60NT	NA	
FDP61N20		FDL100N50F, FDPF17N60NT	NA	